

## MD iMap Technical Committee Meeting Minutes

Place: Department of the Environment (MDE): Terra Room (Baltimore, MD)

Date: 08/05/2014

Time: 1:00PM – 3:00 PM

Attendees: Rowland Agbede (MDA), Michael Bentivegna (CGIS), Michael Blahut (SHA), John Bocan (MES/DoIT), Ashley Buzzeo (CGIS), Jim Cannistra (MDP), Kevin Coyne (DNR), Bill Fearrington (DHR), Julia Fischer (DoIT), Jeyan Jebaraj (DoIT), Mara Kaminowitz (BMC), Barney Krucoff (GIO/DoIT), Erin Lesh (SHA), Lisa Lowe (DoIT), Kate Majchrzak (MDE), Melissa Oguamanam (MDP), Russell Provost (ESRGC/DoIT), Ardys Russakis (CGIS), Frank Siano (MDE), Marshall Stevenson (WBCM/SHA) and Mussie Tewolde (DJS)

Phone Attendees: Anthony Puzzo (Esri) and Doug Reedy (DNR)

### AGENDA:

- Introductions 1:00 – 1:10
- ELA & AGOL User Statistics 1:10 – 1:20
- Action Item Review 1:20 – 1:30
- MD iMap 2.0 Update 1:30 – 1:40
- Esri UC Follow-Up – *Barney Krucoff* 1:40 – 1:55
- Esri ELA Renewal & Master Purchase Agreement 1:55 – 2:05
  - Add-on Products (City Engine, Business Analyst, Community Analyst, etc.)
- Data & Resources Subcommittee Updates 2:05 – 2:35
  - Addressing Initiative – *Russell Provost*
  - Centerlines Update – *SHA*
  - Composite Locator Update – *Russell Provost*
  - Floodplain Map Update – *MDE/MES*
  - Gazetteer MD iMap 1.0 – *DoIT/GIO*
  - Imagery Cache Levels Discussion – *Jim Cannistra*
  - Open Parcel Initiative – *MDP*
- Application Subcommittee Updates 2:35 – 2:45
  - Template Update – *John Bocan*
  - Finder Online Light Application Demo – *MDP*
- Outreach Subcommittee Updates 2:45 – 2:50
  - MD iMap Portal Update – *Julia Fischer*
- Additional Business 2:50 – 3:00

## **Introductions**

*Round-the-room*

### **ELA & AGOL User Statistics**

#### **AGOL Stats**

- We have more credits that we need
- Use the GSA schedule if we did not have ELA, the price point change is based on our users and not our credit usage
- A high number of users is not bad, if they are getting something out of the system
- Storing features will continue to add up, if features are not removed
- More important to have the right users and not as worried right now about credit usage
- Want to discourage, within organizations, allowing an aggregated membership (username/password)
  - Can make this request, but must be cleared through Barney Krucoff or Kenny Miller
  - Provide a good business reason, not to minimize accounts, but the way the account is being used
  - Do not want a centralized resource to be assigned to a particular person, but instead a joint account

#### **OpenLM Stats**

- One of the things coming out is ArcGIS Pro which changes the concurrent license model
- These stats allow us to see benchmarks and peaks for specific days
- ArcGIS Pro looks like it is worth using for those who do not have established workflow in Desktop
- For someone who is making an application, it is a good idea to start using ArcGIS Pro, because this is the direction Esri is going in
- ArcGIS Pro is based on a user log-in, this breaks the way we have been collecting stats and pooling usage, which is concerning
- This is coming and we will have to figure out how we are going to manage this
- The one thing that would change is that the total users would each have to be named, with copies of the software unique to each named user
- Only need 100 licenses because there are only 1 in 5 users in the system using a license at a peak time, want to buy based on peak usage, not total usage
- More information will be available on how ArcGIS Pro will be managed by the end of the month, will be managed through administrator function in AGOL
- Interested to know the average users and a good baseline of information
- Want to understand how many licenses were paying pre-ELA, this is difficult to account for
- Last year we did an analysis and were able to confirm we are saving money with ELA
- Distribution of ArcGIS Server licenses is shown to be significant
- Given our current distribution of software, we are saving money with the ELA
- Would look to pool ArcGIS Server more to save more money
  - This would disrupt some processes and ELA does not require this change

#### **Action Item Review**

- We have 400 AGOL users, but 50,000 state employees
- We are currently focused on MD iMAP 2.0 and getting that out and we are not yet done
- Next goal is to reach a much larger group of state employees with this technology

- Making the AGOL account is the same credentials as the maryland.gov email account
  - Not all agencies have maryland.gov accounts yet, but this can be done
  - It would not reach those who have accounts for local partners, some issues to think through
  - Getting everyone the ability to become a user easily
  - We do not want to pay for 50,000 users if we lost ELA, want a meaningful roll out
  - Google Map Engine and pushing out something through Google apps that is already available
    - We would maintain the data as we do now, but we would have translation to these different front ends
  - Want a number of users in each agency who should have access to this information if we reached out to a greater number of users than we currently have
  - Good thing, have gone to Assessment's Office as a target audience
    - They know little about the web apps that are available
    - Web apps through Google is a start and then AGOL and maybe ultimately to Desktop
  - New personal system rolling out, which will be a single sign-on for the personnel system
  - The difficult ones are the health office that are in local offices, working on this issue right now
  - We are in line to become one of the single sign on agencies, if this is done right then this should be easy
- 
- Training session, courses to be developed, such as how to be a supervisor and some technical ones like access and Word
    - Asked if something was published related to web apps and added to the system to be shared and they said this could be shared to the masses
  - Have a training TORFP out for proposals due August 20 and will include online remaining through the online training management system
    - Online training would be "What is GIS?" and basic information on AGOL
  - Will bring trainer on board to refine what kind of content will be in the courses
  - Same goal to expand the user base and get the message out
  - Hire a firm which will have a mix of skills, create graphics, GIS training and one person will be a trainer full-time home based at DoIT, but could travel to help with the online courses, to get people signed up and get started

### **Metadata**

- Getting more metadata in MD iMAP 2.0, than before
- Still trying to obtain data from end users
- Publish metadata to individual data layers to REST instructions are: in .mxd go to layer > properties > general > descriptions

### **Application Submission Procedures**

- A lot has been taken care of with the website/portal with new directions and tutorials
- Couple of paragraphs to add for AGOL configuration

### **How to submit Socrata services in MD iMap**

- Have some new GIS publishing capabilities
- Interested in setting up a demo, go to both Esri and Google
- Follow up with Socrata to get latest (Barney Krucoff)

- MD iMap Technical Committee is Esri focused in the past
  - Council on Open Data to first meet end of August
  - This council is for open and spatial and non-spatial data
  - Will no longer have MD iMap Executive Committee and Open Data Workgroup which will also be absorbed into Council on Open Data
  - Open Data Workgroup was combination of MD iMap Technical Committee and MD iMap Executive Committee
  - We have the option to enlarge the focus of this committee to include Socrata or create a separate Socrata Technical Committee
  - There is interest to combine these two groups indefinitely
  - There is a lot of overlap in sharing data, formatting data, formatting standards of metadata
  - For some agencies there is a total overlap of the people who would be working with these resources, but for some of the other agencies these groups/[people would be more separate
  - Need to reassess the overlap
  - Open data meeting included a lot of people who are not familiar with GIS
  - Not sure how they would react to getting added to a group that is primarily GIS focused
  - Tends to be more CIO and person one step below
  - Good idea to do a combine meeting and alternate combined and not combined meetings
  - There are some people who are interested in just putting spreadsheets out there, but it might be good to expose those to other ways to share and formulate data
  - Tend to meet quarterly
  - Last MSGIC meeting, Montgomery County representative spoke about workflow to get the data prepared and into Socrata
    - Did not seem to be much GIS involvement, might want to touch base with them on their workflow
  - Montgomery County representative will be on the Council on Open Data and their ideas will be well represented on this new council
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- Touch base with ESRGC about messaging out LiDAR data availability
  - Considerable concerns about turning off MD iMap 1.0 by the end of August for testing
  - Do not believe groups will have had time to adjust resources to accommodate this turn off and have not yet been changed to MD iMap 2.0 services
  - Major piece that is still missing is the raw imagery and image services
  - willing to push back the cut-off date to test until sometime later in September
  - People are waiting until the system is live before they start to migrate to the new system
  - Announce that you will have two months to migrate once the final system is up and running
    - Communication was sent out to be told that the system was being changed
  - This might need to be communicated again, to make sure users know what services are moving, which are not and what mapping from 1.0 to 2.0 has occurred
  - CGIS to pull traffic information to determine which agencies are using the services still
    - Pull the more recent traffic that has been going in between 1.0 and state agencies
    - Id IP addresses
  - Want to move the geometry services from 1.0 to 2.0 and it was placed in utilities

- Consider linking to Google docs for the service lists, rather than a .pdf
- We can slide the turn off one month
- Wanted to do a test over the long weekend, so this would not cause too much trouble for the agencies, but can also help to ID what is going to break while there is still time to turn back on and fix before the resource finally goes away
- We were considering turning off the system for 1 week, starting on a Thursday before a holiday weekend, want to see what happened Tuesday morning on return
- Needs to be during the primetime in order to determine a true test while people are on the system
- Need to determine how quickly these things can be turned off and on, if this can be a short-term
- Change a firewall rule, which can be changed quickly in 15 minutes time blocks
- Can do a tiered turn of
- Send out an email every week to make them aware of when the cut-off will be for test and permanent
- Couple of short-term turn offs is better than a long-term turn off
- How do we find a way to reach out to all end users?
- Communication is key and we have been reaching out to users through many means on many occasions
- Basically we are on a month-to-month lease which could be used to extend MD iMap 1.0, if possible
- We must be off of the system as of October 31
- Come up with another system to try and do short tests between now and shutdown or we can make everyone know when the final cut-off date is and have a backup to open it back up if a critical problem is discovered
- 2 hours test approximately October 1
- Should line up all of the major agencies, altered, confirm they are aware of the cut-off and then know position and communicate internally before actually cutting off the system
- CGIS can pull a report for the most heavily used services, to isolate who and the time of day
- Looked at the Portal and saw some of the number of hits that have been viewed since they were published
- Will need to check what views are measuring in <http://data.imap.maryland.gov>
- SDAT website is a big deal, are they aware of the change, the only reliance is the parcel boundaries and everything else is hosted on parcel boundaries
- CGIS to take the lead on getting that service repointed
  - Esri needs to be told about duplicated services (Parcel Points), not refreshing properly
  - Esri needs to be told about only brief description of where layer name is coming from, which service

### **Esri UC Follow-Up – *Barney Krucoff***

- A lot coming with AGOL, WebApp Builder, Esri doing better job of publishing their data and making it easier to find, we may want our data to appear in similar ways
- Met with PM for AGOL, circulated a list of issues
- Future agenda to go through spreadsheet and issue and provide Esri responses
- Michael Bentigenva (Innovation TU) wrote a blog about UC and award for OSPREY
- Our website got a lot of play during the conference
- Ready to say pick a state and compare our website with their s and we are right there or better, we are moving ahead, with the new data catalog and LiDAR, new galleries, we have come a long way

## **Esri ELA Renewal & Master Purchase Agreement**

- Going before Board of Public Works (BPW) next Wednesday
- No issues from BPW to date
- Adding some products most notably Roads and Highways, which SHA will receive a bill
- Questions about other product add-ons
- Online versions of Business Analyst and Community Analyst are online, limited online
- Heard different things, the Desktop products are not included on ELA, web-based versions are included, can be used with AGOL account, they are limited and use credits
- They are not good for doing something in a hurry, can export data for further analysis, depends on the nature of the project
- ELA has trouble with where Esri has a marginal cost and cannot get unlimited licenses
- City Engine will be included with more licenses
- Otherwise the terms of the renewal are similar to the existing ELA
- Next year is the sweet spot to renegotiate with Esri, one more option year to go by next year, will have good data to negotiate for the best deal
- This is currently an option year and some products were able to be added

## **Data & Resources Subcommittee Updates**

### **Addressing Initiative – *Russell Provost***

- Good participation in updates for July of address points
- BMC participants updated in May and have been incorporated into the system
- Data has been posted to the data extraction site and all the dates are listed
- Data extraction on site has gotten a makeover, credentials are still needed, but can be acquired from Russ

### **Composite Locator Update – *Russell Provost***

- Publish individual geocoders that make up the composite locator
- Allows for users to create their own composite locators, build it from the individual geocoder services
- Also have a composite locator with Esri, which can be used now
- Our composite locator sitting atop Esri composite locator combined
  - There is a bug in the GUI, but only need to worry about filling in street, city, state and ZIP
  - Go about using the GUI as you would by filling in the top four entries only
- Adjusted some settings, more flexibility in the performance indicators and now performing well
- Encourage users to start using these services
- Updated with parcels points, new addresses and new centerlines, so it is up to date and ready for users
- Will no longer be modifying during on hours

**Question:** Will we be sending out indications of when updates are posted? - intend to put together an interactive map to show these variances

- Claim to have reclaimed millions of dollars by treasury department based on researching tax fraud

### **Centerlines Update – *SHA***

- Finally met with all counties and Baltimore City
- First phase of project, initial outreach
- Wrapped up two weeks ago, move into new phase

- Procure Roads and Highways would help with one component of next phase
- Once board votes on the 13<sup>th</sup>, it is good and purchasing can proceed
- Next phase is two part, RFP for implementation support to migrate SHA current workflows into Roads and Highways
- Conflation preparation with counties, municipalities and surrounding states
- Just ask by NSGIC that Mid-Atlantic region be the test for the nation of snap to points across the D.C. and Maryland border, testing technical means to evaluation these points out determine how to move forward on the rest of the county
- ESRGC has been using some preparation of the snap to points
- Working with CGIS to get a new logo put together
- CGIS is going to create some one page fliers
- Common questions from counties needed to be addressed and readily available
- IDed 5 fliers and some ideas for future fliers
- Hopefully have more content for the website soon
- Road closure work being done, have very basic demo application for collection road closure information in the field or in the office
- Evaluations Geocortex, was just procured
- End of the month or early sept will send out communication about next phase of one Maryland, one centerline project
- Request demo that it works and want to use OSPREY as end client where it works
  - Application for collection of data which can be viewed in any existing viewer, do not want to create a new viewer, will have a basic viewer, but intend to collect data with database scheme that meets to majority of uses in other viewers
  - Some counties have requested unique features to tracking road closures, so there will be a unique viewer
  - Want to get more local accounts in OSPREY which can be accommodated through this view of data in existing OSPREY viewer
  - Creating utility to create making labels for right of way announcements, want to put together a service that contains all of the attributes to query vector parcels in app to create mailing labels
  - Parcel points service contains all of the information that is needed to create mailing labels, parcel polygons will have this data, but have not been loaded yet
  - Tool can benefits many end users and can be shared
  - One issue with parcel polygons is that the service is not yet completed, statewide
  - Parcel boundaries attribute is only SDAT link for now, might do a link to the parcel polygons service to join these attributes together
  - Something that is a good ROI

### **Floodplain Map Update – MDE/MES**

- MDE servers are up and running external
- Getting ready to go to MES and get data onto MDE servers
- Flood plain service has been added to MD iMap 2.0
- Lisa Lowe and Kate Majchrzak to work together to get the service transitioned over
- Send email to test services ponce published at MDE
- Then can get together to discuss how to transition floodplain and storm water surge services
- Three layers in the service, preliminary, effective and Q3

- .mxds also already setup with symbology
- Make sure these layers are getting registered to the AGOL groups, even those that are being served by MDE servers and not directly by 2.0 services

### **Gazetteer MD iMap 1.0 – DoIT/GIO**

- Old, not maintained and there are very good commercial basemaps that are free for us to use
- There are people who like the gazetteer and not sure why
- Maintaining a Google basemap with good cartography is very labor intensive
- SHA just built a new black and white and color; need to setup a couple of steps in order to get this one up and running, including true fonts, etc.
- Looks like an ADC map and the end users things it simple to use and navigate, the other maps are too detail, this is coming from the EMS industry
- Show just Maryland
- Willing to publish a mask so that none of the other states are viewable
- Want to pursue putting up what is being maintained and generated by SHA
- Might want to trim down and modify the basemap from SHA to show some features that are expected from other agencies, such as parks, etc.
- Benefit from the cartography
- ADC is basically out of business and are familiar with the commercial bae map products that are out there and available
- Make an effort to move the SHA map and demo here and visit this topic
- Issues will be with training and the multiple scales, that the proper labels show up at the property scales

### **Imagery Cache Levels Discussion – Jim Cannistra**

- Long-term, have been asking about why can't zoom in closer to imagery
- Few years ago the cache levels were set, based on technology at the time
- Would revisit to see if we implement a new cache level with the 2014 imagery
- Do other people feel the need to zoom in more to the imagery
- What about the composite imagery where it went through the cache levels and then go to the image service at the lower zoom
- Cache on demand is another option, but there is a delay in drawing
- Need to task CGIS to research adding the imager service as the nested service, calls the raw imagery when the zoom level is reached
- Mosaic requires storing raw data on the server and making it available
- Difference between mosaic - old fashion to merge together to create single raster, and then mosaic dataset, which still has to read the raw tiles on a file system, but create overviews, like an image service, which it currently is
- Potential solution is to switch at a zoom level as long as the raw tiles are available and hosted
- We will be hosting the raw tiles and so this would be a different service which would allow for accommodating, perhaps the composite imagery again, does take time to stream
- Pilot area imagery for 2014 flight will be done in sept and this would be an opportunity to test to see if this would be worth the time and effort to complete

- Very soon to receive the 3in imagery for Rockville, Annapolis and Gaithersburg, another high resolution data sets

**Question:** Will this be integrated into 6 inch service?

- Should be same service, different resolution, accuracy, etc.

### **Open Parcel Initiative – MDP**

- Data being downloaded and emails going out to subscribers
- In contact with Governor’s Office to get quote for official press release
- Governor is interested in open data council and has been moved to his reception room and he may show up, he is showing interest

### **Application Subcommittee Updates**

#### **Template Update – John Bocan**

- Uploaded to GitHub yesterday
- New updates
- Please do not download anything yet, there is a bug in the query tool which has to be reviewed
- JavaScript3.10 upgrade
- Improvements on pop-ups, title bar anomaly in previous versions has been resolved, everything working okay now
- Three new themes have been added to the template, “earthy” versions, darker browns, lighter browns and a black theme which was completed and implemented, similar to the default theme
- Query tool improvements better phasing to instruct users and something to enforce user input, now can accommodate many versions of same word, lower case, upper case, abbreviation
- Received some excellent comments last week about available documentation
- Revert to the last version until the latest download is corrected
- WebApp Builder beta 2.0 is out and available
- Some major bugs were corrected
- Enforced AGOL usage even more than before, so can’t use without AGOL username and password
- Still continue to test
- Got rid of a couple of features that were good

**Question:** When will this be released?

- Talking about the third quarter of this year

**Question:** Based on AGOL only?

- Unfortunately, but yes
- There may still be ways to work outside of the AGOL requirement
- Continue to develop the template because we can bring in GeoJSON and other open source APIs
- Please start using the MD iMAP 2.0 template moving forward

- Might be able to take this resource and provide as a second template from MD iMap in AGOL, which includes responsiveness which is very valuable and not available in our template

### **Template Update – *John Bocan***

- Application development page
- Goal is to have future pages to include other ways of consuming the rest services into other applications
- On Portal, under Innovate > Application Development

### **Finder Online Light Application Demo – *MDP***

- Current application does not on iPads
- Using public information template, used web app builder to create finder online light
- Not intended to be password protected
- Responsive, looks good on cell phone
- Used by real estate community, those in the field to look at parcel
- Pointing to MD iMap 2.0 data
- Speed and performance is good
- Send the link out to get some feedback on how it work son different devices and other browsers
- Would like to release within the next month or so
- Dynamic legend
- Printer works in chrome and Firefox
- Account number search
- Believe there is potential of the WebApp Builder
- Send out the link, do not distribute but to provide some feedback on functionality and ideas and suggestions

**Question:** Beta product and release as beta product is this okay?

- We want to release and want to add to map gallery, you might want to include a beta in the title to make sure people are aware that it is the beta version

**Next MD iMap Technical Committee Meeting: September 2, 2014**